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PATENT
HSD01 P-100A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) : Harold W. Steele and Philip A. Tanis
Serial No. : 10/708,770
Filing Date : March 24, 2004
Patent No. : 7,140,868 B1
Issue Date : November 28, 2006
Entitled : UNIVERSAL LIFTER FOOT ASSEMBLY FOR REMOVAL OF CORE
BLOCK FROM MOLD

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

Dear Sir:

I hereby certify that the accompanying return postcard, Request for Certificate of Correction (3 pages), and Form PTO-1050 (3 pages, in duplicate) are being deposited in the United States Postal Service as First Class Mail, in an envelope addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on July 30, 2007.



Frederick S. Burkhardt
Registration No. 29 288
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P.O. Box 888695
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FSB:clw
Enclosures

Certificate
AUG 06 2007
of Correction

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REQUEST FOR CERTIFICATE OF CORRECTION

Dear Sir:

A request is being made for Certificate of Correction in the above-identified patent, which issued with the following errors identified by Column and Line from the patent.

Abstract (57):

Line 2, "include" should be --includes--.

Column 2:

Lines 19-30, Delete duplicate paragraph --A universal lifter foot assembly for use with an ejector assembly of a mold for molding plastic parts, according to another aspect of the invention, includes a pair of gibb plates with camming surfaces defined along the gibb plates. A carrier assembly is slidable with respect to the camming surfaces. The carrier assembly includes a rod carrier, a helper carrier and wear plates. The rod carrier and the helper carrier are pivotally mounted by the wear plates. The wear plates engage the camming surfaces. The rod carrier is adapted to actuate a lifter rod. The helper carrier is adapted to slide along a stationary helper pin generally parallel to the lifter rod.

Column 3:

Line 4, Insert missing paragraph --A core blade lifter assembly **17** includes a lifter body **18** that is lifted vertically and horizontally by a lifter rod **20** in order to eject a molded plastic part having an undercut portion from the mold, as is known in the art. Core blade lifter assembly **17** includes a lifter foot assembly **22** supported by ejector plate **16** that translates vertical movement of the ejector plate to a combination of vertical and horizontal movement of lifter body **18**. Lifter foot assembly **22** may be mounted beneath the ejector plate in the orientation illustrated in Fig. 1, but may, alternatively, be mounted to the top of the ejector plate. A retainer plate **24** may be utilized to assist in retaining the lifter foot assembly to the ejector plate, if necessary. Core blade lifter assembly **17** further includes helper pin **26** that is mounted parallel to lifter rod **20** and is held stationary, such as being secured at respective ends by clamp plate **24** and ejector block **12**-- before "Lifter".

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Applicants: Harold W. Steele and Philip A. Tanis
Patent No.: 7,140,868 B1
Page 2

Lines 62-67, Delete duplicate paragraph -- In operation, helper pin **26** is fixed to ejector block **12** and clamp plate **14** at the same angle as lifter rod **20**. Because rod carrier **34** and helper carrier **36** are pivotally mounted with respect to the gibb plates, lifter foot assembly **22** may be utilized with various angular orientations of the lifter rod and helper pin. In the illustrative embodiment, the lifter rod--.

Column 4:

Lines 1-11, Delete duplicate paragraph --and helper pin may be positioned at an angle of 0 to 15 degrees with respect to the direction of movement of the ejector plate and may even be utilized at an angle of up to approximately **20** degrees with respect to the direction of movement of the ejector plate. As the ejector plate actuates lifter rod **20** upwardly, helper carrier **36** slides along helper pin **26**. Also, as the ejector plate **16** moves, the carrier assembly **30** moves laterally. This is assisted by the helper pin which assists in causing the slidable motion of the carrier assembly thereby reducing the lateral force placed upon the lifter rod.--

Line 26, Insert missing paragraph -- The present invention may be utilized with a camming surface **32** that is substantially horizontal. Alternatively, the camming surface may be placed at an angle with respect to the surface of the ejector plate as shown in the illustrated embodiment. This allows the designer to apply additional acceleration to the lifter rod or reduce the acceleration of the lifter rod depending upon the angle and the direction of slope of the camming surfaces. In the illustrative embodiment, camming surfaces **32** may typically be at an angle of between 0 and 15 degrees, but may be at an angle of up to **20** and even **30** degrees in order to provide additional acceleration to the lifter rod or reduce acceleration of the lifter rod, if needed. This further facilitates the broad use of the core blade lifter assembly in various applications.--.

Lines 35-43, Delete duplicate paragraph -- Thus, it is seen that the present invention provides a universal lifter foot assembly that is exceptionally versatile and allows the mold designer to utilize common components without the necessity for detailed design of the elements thereof. Moreover, a carrier assembly and gibb plates may be kept in stock with the angle of the camming surfaces either machined at the time of use or stocked at various angles of inclination. Other modifications will become apparent to those skilled in the art.--.

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Applicants: Harold W. Steele and Philip A. Tanis
Patent No.: 7,140,868 B1
Page 3

Enclosed is the Certificate of Correction Form PTO-1050 (in duplicate) identifying errors by Column and Line from the patent which are chargeable to the Official Printer.

Respectfully submitted,
HAROLD W. STEELE & PHILLIP A. TANIS
By: Van Dyke, Gardner, Linn & Burkhart, LLP

Date: July 30, 2007

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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,140,868 B2
 APPLICATION NO. : 10/708,770
 ISSUE DATE : November 28, 2006
 INVENTOR(S) : Harold W. Steele and Phillip A. Tanis

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

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Line 2, "include" should be --includes--.

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PATENT NO. 7,140,868 B1

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